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Divergence Measures: Mathematical Foundations and Applications in Information-Theoretic and Statistical Problems

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Message from the Guest Editor

Dear Colleagues,

Information theory and probability, statistical learning theory, statistical signal processing, and other related disciplines greatly benefit from non-negative measures of dissimilarity (i.e., divergence measures) between pairs of probability measures defined on the same measurable space. Exploring the mathematical foundations of divergence measures (e.g., Bregman, Renyi, and f-divergences), and their potential applications in new information-theoretic and statistical problems is of interest, and many interesting results involve the use of these generalized divergence measures.

This Special Issue encourages research and survey papers on the mathematical properties and applications of divergence measures from an information-theoretic perspective.

Prof. Igal Sason

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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